

QS 102

102 #7

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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/844,508

DATE: 10/19/2001
 TIME: 11:50:50

Input Set : A:\8325-0014.txt
 Output Set: N:\CRF3\10192001\I844508.raw

3 <110> APPLICANT: WOLFFE, Alan P.
 4 COLLINGWOOD, Trevor
 6 <120> TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
 8 <130> FILE REFERENCE: 8325-0014 / S14-US1
 10 <140> CURRENT APPLICATION NUMBER: 09/844,508
 11 <141> CURRENT FILING DATE: 2001-04-27
 13 <150> PRIOR APPLICATION NUMBER: 60/200,590
 14 <151> PRIOR FILING DATE: 2000-04-28
 16 <150> PRIOR APPLICATION NUMBER: 60/228,523
 17 <151> PRIOR FILING DATE: 2000-08-28
 19 <160> NUMBER OF SEQ ID NOS: 49
 21 <170> SOFTWARE: PatentIn Ver. 2.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 9
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence ✓
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 target
 30 site 3' to 5'
 32 <400> SEQUENCE: 1
 33 cccctccta 9
 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 9
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Artificial Sequence ✓
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 target
 42 site 5' to 3'
 44 <400> SEQUENCE: 2
 45 ggggaggat 9
 47 <210> SEQ ID NO: 3
 48 <211> LENGTH: 7
 49 <212> TYPE: PRT
 50 <213> ORGANISM: Artificial Sequence ✓
 52 <220> FEATURE:
 53 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AA
 54 sequence F1 ✓
 56 <400> SEQUENCE: 3
 57 Thr Thr Ser Asn Leu Arg Arg
 58 1 5
 61 <210> SEQ ID NO: 4
 62 <211> LENGTH: 7
 63 <212> TYPE: PRT
 64 <213> ORGANISM: Artificial Sequence ✓
 66 <220> FEATURE:
 67 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AA
 68 sequence F2 ✓

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70 <400> SEQUENCE: 4
71 Arg Ser Ser Asn Leu Gln Arg
72 1 5
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 7
77 <212> TYPE: PRT
78 <213> ORGANISM: Artificial Sequence ✓
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AA ✓
82 sequence F3
84 <400> SEQUENCE: 5
85 Arg Ser Asp His Leu Ser Arg
86 1 5
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 9
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence ✓
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 3a target ✓
96 site
98 <400> SEQUENCE: 6
99 gcggaggt 9
101 <210> SEQ ID NO: 7
102 <211> LENGTH: 7
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence ✓
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 3a AA ✓
108 sequence F1
110 <400> SEQUENCE: 7
111 Gln Ser Ser Asp Leu Gln Arg
112 1 5
115 <210> SEQ ID NO: 8
116 <211> LENGTH: 7
117 <212> TYPE: PRT
118 <213> ORGANISM: Artificial Sequence ✓
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 3a AA ✓
122 sequence F2
124 <400> SEQUENCE: 8
125 Arg Ser Ser Asn Leu Gln Arg
126 1 5
129 <210> SEQ ID NO: 9
130 <211> LENGTH: 7
131 <212> TYPE: PRT
132 <213> ORGANISM: Artificial Sequence ✓
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 3a AA ✓
136 sequence F3

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138 <400> SEQUENCE: 9
 139 Arg Ser Asp Glu Leu Ser Arg
 140 1 5
 143 <210> SEQ ID NO: 10
 144 <211> LENGTH: 298
 145 <212> TYPE: DNA
 146 <213> ORGANISM: Artificial Sequence
 148 <220> FEATURE:
 149 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg1 ✓
 150 nucleotide sequence
 152 <400> SEQUENCE: 10
 153 ggtacccata cctggcaaga agaaggcagca catctgccac atccagggct gtggtaaagt 60
 154 ttacggcaca acctcaaatac tgcgtcgta cctgcgctgg cacaccggcg agaggcctt 120
 155 catgtgtacc tggtcctact gtggtaaacg cttcacccgt tcgtcaaacc tgcatcgta 180
 156 caaggctacc cacaccggtg agaagaaatt tgcttgccc gagtgtccga agcgttcat 240
 157 gcgtatgtac cacctgtccc gtcacatcaa gaccaccag aataagaagg gtggatcc 298
 159 <210> SEQ ID NO: 11
 160 <211> LENGTH: 99
 161 <212> TYPE: PRT
 162 <213> ORGANISM: Artificial Sequence ✓
 164 <220> FEATURE:
 165 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg1 amino acid sequence
 166 acid sequence
 168 <400> SEQUENCE: 11
 169 Val Pro Ile Pro Gly Lys Lys Gln His Ile Cys His Ile Gln Gly
 170 1 5 10 15
 172 Cys Gly Lys Val Tyr Gly Thr Thr Ser Asn Leu Arg Arg His Leu Arg
 173 20 25 30
 175 Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly
 176 35 40 45
 178 Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr His
 179 50 55 60
 181 Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met
 182 65 70 75 80
 184 Arg Ser Asp His Leu Ser Arg His Ile Lys Thr His Gln Asn Lys Lys
 185 85 90 95
 187 Gly Gly Ser
 191 <210> SEQ ID NO: 12
 192 <211> LENGTH: 29
 193 <212> TYPE: DNA ✓
 194 <213> ORGANISM: Artificial Sequence ✓
 196 <220> FEATURE:
 197 <223> OTHER INFORMATION: Description of Artificial Sequence: duplex
 198 oligonucleotide binding target 5'-3'
 200 <400> SEQUENCE: 12
 201 catgcatagc ggggaggatc gccatcgat 29
 203 <210> SEQ ID NO: 13
 204 <211> LENGTH: 14
 205 <212> TYPE: PRT

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206 <213> ORGANISM: Artificial Sequence ✓
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Description of Artificial Sequence: NLS derived ✓
210 SV40 large T-antigen
212 <400> SEQUENCE: 13
213 Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val
214 1 5 10
217 <210> SEQ ID NO: 14 ✓
218 <211> LENGTH: 8 ✓
219 <212> TYPE: PRT ✓
220 <213> ORGANISM: Artificial Sequence ✓
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: ✓
224 double-stranded oligonucleotide encoding a FLAG
225 epitope
227 <400> SEQUENCE: 14 ✓
228 Asp Tyr Lys Asp Asp Asp Lys
229 1 5
232 <210> SEQ ID NO: 15 ✓
233 <211> LENGTH: 19 ✓
234 <212> TYPE: DNA ✓
235 <213> ORGANISM: Artificial Sequence ✓
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: target site
for human VEGF-A ✓
241 <400> SEQUENCE: 15
242 ggggaggatc gcggaggct 19
244 <210> SEQ ID NO: 16
245 <211> LENGTH: 5
246 <212> TYPE: PRT
247 <213> ORGANISM: Artificial Sequence ✓
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: linker ✓
251 sequence ✓
253 <400> SEQUENCE: 16
254 Asp Gly Gly Gly Ser
255 1 5
258 <210> SEQ ID NO: 17
259 <211> LENGTH: 298 ✓
260 <212> TYPE: DNA ✓
261 <213> ORGANISM: Artificial Sequence ✓
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg3a
265 nucleotide sequence ✓
267 <400> SEQUENCE: 17
268 ggtacccata cctggcaaga agaaggcagca catctgccac atccaggct gtggtaaagt 60
269 ttacggccag tcctccgacc tgcagcgatca cctgcgtgg cacacccggcg agaggcctt 120
270 catgtgtacc tggtcctact gtggtaaacf cttcacccgt tcgtcaaacc tacagaggca 180
271 caagcgtaca cacacccgtg agaagaaatt tgcttccccg gagtgccga agcgcttcat 240

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272 gcgaagtgac gagctgtcac gacatatcaa gaccaccag aacaagaagg gtggatcc 298
274 <210> SEQ ID NO: 18
275 <211> LENGTH: 99
276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence ✓
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg3a amino
281 acid sequence ✓
283 <400> SEQUENCE: 18
284 Val Pro Ile Pro Gly Lys Lys Gln His Ile Cys His Ile Gln Gly
285 1 5 10 15
287 Cys Gly Lys Val Tyr Gly Gln Ser Ser Asp Leu Gln Arg His Leu Arg
288 20 25 30
290 Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly
291 35 40 45
293 Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr His
294 50 55 60
296 Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met
297 65 70 75 80
299 Arg Ser Asp Glu Leu Ser Arg His Ile Lys Thr His Gln Asn Lys Lys
300 85 90 95
302 Gly Gly Ser
306 <210> SEQ ID NO: 19
307 <211> LENGTH: 29
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial Sequence ✓
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg3a DNA ✓
313 target site
315 <400> SEQUENCE: 19
316 catgcatac gcggaggctt ggcatcgat 29
318 <210> SEQ ID NO: 20
319 <211> LENGTH: 29
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial Sequence ✓
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: primer SPE7 ✓
326 <400> SEQUENCE: 20
327 gagcagaatt cggcaagaag aagcagcac 29
329 <210> SEQ ID NO: 21
330 <211> LENGTH: 26
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence ✓
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
336 SPEamp12
338 <400> SEQUENCE: 21
339 gtggtctaga cagctcgtca cttcgc 26
341 <210> SEQ ID NO: 22

VERIFICATION SUMMARY

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